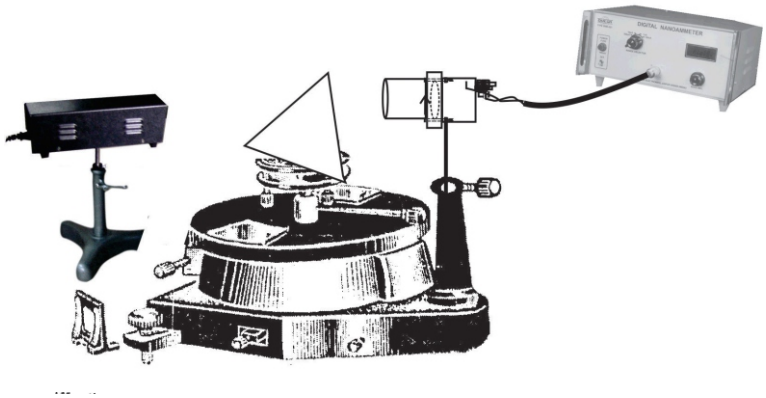
OMEGA®

A SIGN OF QUALITY PRODUCT

BREWSTER'S ANGLE AND REFRACTIVE INDEX OF GLASS USING LASER

OMEGA TYPE ES-313



OMEGA TYPE ES-313 Experimental Set-Up has been designed specifically to determine Brewster's angle for a glass prism surface and hence to determine refractive index of glass using Laser. The set-up consists of Circular table, Diode Laser, Glass prism, Laser Detector, Nano-ammeter, Reading Lens and Spirit Level.

The set-up is complete in all respect and requires no other apparatus.

Practical experience on this set-up carries great educative value for Science and Engineering Students.

OBJECT

To determine Brewster's angle for a glass prism surface and hence to determine refractive index of glass prism using Laser.

FEATURES

The complete Experimental Set-up consists of the following items.

01 HE-NE LASER WITH POWER SUPPLY.

Maximum output : 1 mW.
Wave length : 670 nm visible red.
Power supply : Included with ON/OFF switch working on 230 mains.

02 CIRCULAR TABLE : Spectrometer scale 6" dia circle with vernier but without Collimator & Telescope. It has two holders one for laser & other for Laser detector.

03 SPECTROMETER PRISM : Optically worked with two faces polished equilateral size 38mm x 38mm. Crown glass.

04 LASER DETECTOR : Composition silicon Laser detector mounted in case.

05 NANO AMMETER : OMEGA TYPE DNM–021. Range 100nA, 1uA, 10uA, 100uA, DISPLAY 3½ digit Seven Segment LED

06 READING LENS : 40 mm diameter with handle

07 SPIRIT LEVEL : 60 mm length.

08 Weight : 12.8Kg. (Approx.)

09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

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